JEYALAKSHMI RAMAMOORTHY
SENIOR FULL STACK ENGINEER | REACT & NODE | .NET | TOTAL EXP- 9+

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SUMMARY

A dedicated and results-driven professional seeking a challenging position in a reputable organization to leverage my skills, knowledge, and training. Committed to contributing significantly to the company's success while expanding my learnings in a dynamic environment. Eager to utilize my interpersonal skills to achieve the organization's goals, with a strong focus on customer satisfaction and enhancing the overall customer experience.

WORK EXPERIENCE

Senior Full Stack Engineer   **Maybank, Malaysia**   **Sep 2023 - Present**

Project Name: MPOP (Maybank Payment Operations Portal)
- Leading the MPOP project for front-end web page and backend server integration.

Modules Implemented:
- **ISO (International Organization for Standardization)**
  - Handling payment portal transactions between banks and between banks and customers.
  - Converting SWIFT standard transaction messages (MT) into XML messages (MX) and vice versa using backend tools.
  - Monitoring each payment transaction's status, including host submission, intermediary, errors, and NSTP/STP.
  - Converting ISO standard XSD schema definitions into an appropriate hierarchy and displaying it in a tree view structure.
  - Maintaining role structures, including super admin, user admin, maker, and checker. Makers can repair transaction messages, while checkers verify changes and provide approval or rejection privileges.
  - Balancing role hierarchies to allow specific roles to monitor the daily activities of other roles.
  - Handling deployment setup in Dev, SIT, UAT environment.
  - Managing the Scrum Master role.
- **RTS (Regional Transfer)**
  - Maintaining and monitoring the bank list information for all banks connected with Maybank.
  - Summarizing debit and credit transactions for effective monitoring.
  - Managing charging fees, including service tax and processing tax based on country selection.

Key Responsibilities:
- Planning, designing, development, testing, task creation, deployment, setting up new user activities, and sprint closure.

Technical Skills:

- Languages/Frameworks: **React.js (Redux), Node.js (Express), .Net Core (Web API), TypeScript, JavaScript**
- Databases: **PostgreSQL, MongoDB**
- Architecture: **Redux Toolkit, MVC**
- Servers: **Windows, Linux, IIS**
- DevOps Tools: **CI/CD, GitLab Runner, Docker, Apache, HTTPD, PM2**
- Project Management tools: **GitHub, Confluence, JIRA**
- Cloud Technology: **AWS**
- End Users: **London, Singapore**
- Contract Company: **Tech Matrix Pvt Ltd (Payroll & Visa Processing Company)**
- Company Location: **Kuala Lumpur, Malaysia**

Senior Full Stack Engineer   Kimball Electronics Pvt Ltd   Feb 2020 - Sep 2023

Project 1: TokyoCMS - Leading IIOT 4.0 Project for Server and Web Page

- Directly Responsible Individual (DRI) for the Factory Digitalization project in Japan, successfully completed in April 2021; currently working on international projects.
- **Responsibilities:**
  - Managed upcoming IIOT 4.0 projects.
  - Responsible for customer demonstrations and proof of concepts.
  - Estimated and delivered server-related tasks.
  - Served as Project Architect for server and IIOT data flow under ISA 88 standards.
  - Collaborated closely with the Software Testing team on both white-box and black-box testing.
  - Led a team in developing Industrial 4.0 software.
  - Coordinated with the Global Factories Team on Design for Manufacturability (DFM) discussions and IIOT-related requirements.
  - Coordinated with customer business analysts or product owners to clarify concepts, designs, and release packages.
  - Collaborated closely with team members, customers, and management to address project status.
  - Configured a new VM setup in the local testing server to mirror production without external support.
  - Managed the Scrum master role and supervised junior employees, with a team size of 2.
- **Projects Handled:**
  - **Factory Digitalization for Pharma Industry IIOT 4.0**
  - **Domain:** Medical, regulated by government standards.
  - Focused on regenerative medicines with stem cells.
  - Monitored 120+ machines, collecting 5 parameters per machine at one-minute intervals.
  - Implemented 24/7 data monitoring using MQTT.
  - Emphasized data security, minimized network traffic, and balanced heavy data loads.
  - **Technologies utilized**: MQTT, VerneMQ, NGINX Server, Redis Server, Protocol Converters, Queuing services, C#, API Server, PLC, IPC, InfluxDB, and Telegraf.
  - Digitalized an entire pharma factory in Japan, collecting data from field devices via PLC/FL-Net modules, sending data to C#, and then to Telegraf and VerneMQ. Telegram sends data to the historian server, and VerneMQ sends data to the API server.
  - Implemented the Floor Map Designer feature.

- **Roles**:
  - Sizing, planning, implementation, development testing, and production deployment.
- **Technologies**:
  - Languages/Frameworks: **Typescript, React.js (Redux), Node.js (Express, GraphQL), .Net Core.**
  - Databases: **PostgreSQL, InfluxDB, MongoDB**
  - Mobile Applications: **React Native, Android Emulator, XCode Emulator.**
  - Servers: **IIS, Windows, Linux, iOS, Telegraf, NGINX**
  - Protocols: **MQTT (Connector - VerneMQ), Web Socket.**
  - DevOps Tools: **CI/CD, GitLab Runner, Docker**
  - Cloud Technology: **AWS (Lambda, SNS,SQS)**
- **End User**: Japan

Project 2: EMTab - IIOT 4.0 for EMS Automobile Industry

- Integrated multiple machines and PLCs with different protocols to collect and store data for 6 years. Visualized the data in a custom web UI with historian features. Data was stored in a format optimized for machine learning and deep learning, enabling AI-driven predictions and insights.
- **Roles**:
  - Sizing, planning, implementation, development testing, and deployment.
- **Technologies:**
  - Languages/Frameworks: **React.js (Redux), Node.js (Express, GraphQL), Typescript**
  - Databases: **MySQL, InfluxDB, MongoDB**
  - Mobile Applications: **React Native, Android Emulator.**
  - Project Management Tools: **GitHub, SVN, Jira**
  - Servers: **Windows, Linux, Telegraf**
  - Protocols: **MQTT, WebSocket.**
- **End Users:** Thailand, China, and Mexico
- **Company Location:** Thiruvananthapuram, India

Senior Software Engineer   RM Education Pvt Ltd.,   July 2015 - July 2019

Project Name: eMarking
- **Roles:**
  - Sizing, planning, implementation, development testing.
- **Responsibilities:**
  - Installed and commissioned systems at customer sites.
  - Implemented proper agile methodologies for project management.
  - Led junior employees in development activities.
  - Acted as an active Scrum Master, depending on the lead's availability.
  - Presented project demos to customers.
  - Provided onsite support in London on two occasions.
  - Conducted code reviews to maintain code quality.
  - Supported build and deployment processes.
  - Led new product launches.
- **Projects Handled:**
  - Online Exam Paper Marking and Validation
- **Project Overview:**
  - Developed an online system for marking and validating exam papers, which includes practice and live marking, team management, and admin handling.

- The system scans and uploads student scripts into databases and shared folders on the server.
- The uploaded scripts are accessed by the application, where markers place annotations and add scores. After validation, the scores are published.
- **Sub-Tools and Features:**
  - **SAAD**: A subsystem for specific administrative and analysis tasks.
  - **Image Processing for Answer Sheet Evaluation**:
    - Developed a Python-based image processing system using OpenCV to automate the evaluation of answer sheets.
    - Extracted answered sections from structured forms as images and sent them to an AI model for OCR processing.
    - Converted images into human-readable text using OCR and compared extracted text with the correct answer key to automatically assess responses.
    - This solution significantly reduced manual effort and improved accuracy in evaluating large volumes of answer sheets efficiently.
- **Technologies**:
  - Frontend: **React.js with TypeScript.**
  - Backend: **.NET (Web API).**
  - Databases **: MS SQL**
  - Servers: **Windows, IIS**
  - Storage: **AWS (File Storage and Blob Storage).**
  - Image Processing: **Python, Flask, OpenCV, AWS Amazon Textract.**
- **End User:** UK
- **Company Location:** Thiruvananthapuram, India

Software Developer UFours IT Solutions Sep 2013 - July 2015

Project Name: Team Worker
- **Responsibilities**:
  - Developed Windows applications.
  - Communicated directly with clients to discuss and understand project requirements.
  - Managed projects independently.
  - Conducted development testing and deployed applications to production sites.
  - Worked on multiple projects simultaneously.
- **Projects Handled:**
  - Job Assignment and Employee Work Time Tracking Tool
- **Project Overview:**
  - Developed a tool to assign jobs and track employee work hours and productivity.
  - The tool includes features for job assignment, idle time tracking, working time tracking, and capturing system screenshots at configured intervals.
  - Enabled assigning both recursive and non-recursive jobs to multiple employees simultaneously.
  - Tracked employees' working hours, idle hours, and took system screenshots to monitor productivity.
- **Technologies Used:**
  - Platform: **.NET (Windows)**
  - Database: **MS SQL**
- **End Users:** Pakistan, US
- **Company Location:** Madurai, TamilNadu, India

SKILLS

- **Databases -** MS SQL Server, PostgreSQL, InfluxDB, MongoDB
- **Cloud Databases –** Firebase, AWS
- **Languages –** C# (Object-Oriented Programming), ASP.NET, TypeScript, JavaScript, jQuery
- **Frameworks** - .NET Core, Express
- **JavaScript Libraries –** React.js, Node.js
- **Deployment Tools** - CI/CD, GitLab Runner, Apache, HTTPD, NGINX, PM2
- **Architecture –** Redux, MVC, 3-tier
- **Servers -** Windows, Linux, IIS
- **Communication Protocols –** MQTT, WebSocket, Telegraf
- **Project management tools** - GitHub, VSTS, Confluence, Jira
- **Mobile Applications –** React Native, Android Emulator, XCode Emulator

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EDUCATION

Bachelor of Engineering (Computer Science)   **2010 - 2013**
Sethu Institute of Technology, Virudhunagar, Tamilnadu, India

Diploma of Computer Engineering   **2007 - 2010**
Government Polytechnic, Madurai, TamilNadu, India

AWARDS & RECOGNITIONS

- "Star of the month" award from Kimball Electronics in Mar 2020.
- "Consider it Done" award from Kimball Electronics in August 2022.

CERTIFICATES

- "First class with distinction" in Junior Type Writing English.

LANGUAGES

- **English, Tamil -** Fluent
- **Malayalam, Kannada -** Speak

PERSONAL DETAILS

- **Father Name -** Ramamoorthy
- **Husband Name -** Sathishkumar
- **DOB -** 25/04/1992
- **Marital Status -** Married
- **Nationality -** Indian
- **Gender -** Female